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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/825,918	04/03/2001	William T. Turner	12017-24/JWE	4546
75	90 05/05/2004	EXAMINER		
STRADLING YOCCA CARLSON & RAUTH			FLETCHER, MARLON T	
IP Department 660 Newport Center Drive, Suite 1600			ART UNIT	PAPER NUMBER
P.O. Box 7680			2837	
Newport Beach, CA 92660-6441			DATE MAILED: 05/05/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		1h
	Application N .	Applicant(s)
	09/825,918	TURNER, WILLIAM T.
Office Action Summary	Examin r	Art Unit
	Marlon T Fletcher	2837
The MAILING DATE of this communication Period for Reply	on appears n the c ver sheet wi	th the c rrespondence address
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days. If NO period for reply is specified above, the maximum statutory. Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a reson. In a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MON statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on	23 January 2004.	
	This action is non-final.	
3) Since this application is in condition for a	llowance except for formal matte	ers, prosecution as to the merits is
closed in accordance with the practice ur	nder <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 22-24 is/are pending in the applied 4a) Of the above claim(s) is/are with		
5) Claim(s) is/are allowed.	indiawn from Consideration.	
6)⊠ Claim(s) <u>22-24</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction a	and/or election requirement.	
Application Papers		
9)☐ The specification is objected to by the Exa	aminer.	
10) The drawing(s) filed on is/are: a)] accepted or b)☐ objected to t	by the Examiner.
Applicant may not request that any objection to	to the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the o	correction is required if the drawing	s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by t	he Examiner. Note the attached	Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
 12) ☐ Acknowledgment is made of a claim for for a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docu 2. ☐ Certified copies of the priority docu 	ments have been received.	
3. Copies of the certified copies of the	•	· · · · · · · · · · · · · · · · · · ·
application from the International B	•	. 555,754 iii ans Manonai Glago
* See the attached detailed Office action for	, , , , , , , , , , , , , , , , , , , ,	received.
Attachment(s)		
) Notice of References Cited (PTO-892)		ummary (PTO-413)
 Notice of Draftsperson's Patent Drawing Review (PTO-94) Information Disclosure Statement(s) (PTO-1449 or PTO/5 	· · · · · · · · · · · · · · · · · · ·	s)/Mail Date Iformal Patent Application (PTO-152)
Paper No(s)/Mail Date	6) Other:	

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinman '999 or Blucher et al in view of Anderson '117.

Each patent discloses an upper and lower coil, and a single, flat non-magnetized ferromagnetic plate 41 disposed between two coils. Regarding claim 23, each patent discloses at least one magnetic pole piece partially with the upper coil and partially within the lower coil and extending through a hole in the ferromagnetic plate 41. Regarding claim 24, at least one magnetic pole piece extends from above the upper coil. Neither Kinman '999 nor Blucher et al. disclose a completely flat ferromagnetic plate.

However, Anderson '117 discloses a pickup having a upper and lower coil (figures 2 and 4), having a completely flat flexible magnet plate (20) disposed between the two coils.

It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the teachings of Anderson with either Kinman'999 or Blucher et al., because Kinman '999 and Blucher et al. provide all of the limitations, except for a completely flat plate. Anderson provides this additional feature for use with a pick up

having an upper and lower coil. Although Anderson does not disclose ferromagnetic material, Anderson discloses magnetic material. Kinman and Blucher et al. provide ferromagnetic material. The ferromagnetic material means that the material is magnetizable. Anderson provides a magnet which means the material is magnetized. It would be obvious to combine the references to provide a completely flat material whether the material be ferromagnetic or magnetic, wherein the flat material provides a separation between the upper and lower coils, and magnetism changes the inductance; thereby, enhancing the invention.

3. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kinman '520 or '966 in view of Anderson.

Each patent to Kinman discloses an upper coil 30, a lower coil 20, and a single non-magnetized ferromagnetic plate 41 disposed between two coils. The plate forms part of metallic shield of magnetically permeable material. The material is mild steel and non-magnetized. Neither reference discloses a completely flat plate.

However, Anderson '117 discloses a pickup having a upper and lower coil (figures 2 and 4), having a completely flat flexible magnet plate (20) disposed between the two coils.

It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the teachings of Anderson with either Kinman '520 or '966, because Kinman '520 and '966 provide all of the limitations, except for a completely flat plate.

Anderson provides this additional feature for use with a pick up having an upper and

lower coil. Although Anderson does not disclose ferromagnetic material, Anderson discloses magnetic material. Kinman and Blucher et al. provide ferromagnetic material. The ferromagnetic material means that the material is magnetizable.

Anderson provides a magnet which means the material is magnetized. It would be obvious to combine the reference to provide a completely flat material whether the material be ferromagnetic or magnetic. It would be obvious to combine the references to provide a completely flat material whether the material be ferromagnetic or magnetic, wherein the flat material provides a separation between the upper and lower coils, and magnetism changes the inductance.

4. Claims 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinman '999 or Blucher et al in view of Freeman '461.

Each patent discloses an upper and lower coil, and a single, flat non-magnetized ferromagnetic plate 41 disposed between two coils. Regarding claim 23, each patent discloses at least one magnetic pole piece partially with the upper coil and partially within the lower coil and extending through a hole in the ferromagnetic plate 41. Regarding claim 24, at least one magnetic pole piece extends from above the upper coil. Neither Kinman '999 nor Blucher et al. disclose a completely flat ferromagnetic plate.

However, Freeman '117 discloses a pickup having a upper and lower coil (figure 3), having a completely flat flexible magnet plate (20) disposed between the two coils.

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It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the teachings of Freeman with either Kinman'999 or Blucher et al., because Kinman '999 and Blucher et al. provide all of the limitations, except for a completely flat plate. Anderson provides this additional feature for use with a pick up having an upper and lower coil. Freeman discloses a completely flat magnetic material. Kinman and Blucher et al. provide ferromagnetic material. The ferromagnetic material means that the material is magnetizable. Freeman provides a magnet which means the material is magnetized. It would be obvious to provide the claimed invention in view of combination, wherein the combination is merely used to provide the different material for providing the same result.

Response to Arguments

5. Applicant's arguments filed 01/23/2004 have been fully considered but they are not persuasive.

The examiner has carefully reviewed applicant's argument, and disagrees with the arguments. The examiner believes that the references are combinable and that the teachings meet the claimed limitations. The specification discloses the ferromagnetic plate being sandwiched between plates 19 and 20, wherein the ferromagmetic plate provides separation between the upper and lower coils. It is obvious to make the ferromagnetic material between the coils completely flat, wherein the primary purpose is to provide separation between the upper and lower coils, while being able to create a magnetic field between the two coils. The prior art as discussed above, provides these

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teachings. Because the references all teach an upper and lower coil, including a material (magnetic) providing a separation between the two coils, it is clear that the art is related and the teachings could possibly be combined. The difference in the teachings, is seen in the design of the material. All references provide magnetic transducers or pickups. The effects of providing a flat or non-flat material separating the coils, is an obvious variation, because the teachings are taught in the prior art to provide either a flat or non-flat material, wherein the material is magnetic, which thereby, provides a change in inductance.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marlon T Fletcher whose telephone number is 571-272-2063. The examiner can normally be reached on M-W, and F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on 571-272-2107.

Marlon Trietcher Primary Examiner

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MTF

May 3, 2004